

2024-12-11

2024-1105

Container label

PARDNER HERBICIDE

GROUP

6

HERBICIDE

EMULSIFIABLE CONCENTRATE

For use in WHEAT (spring, durum & winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY SEED (for seed production), TRITICALE, GARLIC, ONION (dry bulb only), LEEKS, ONION (DRY BULB) ON MUCK SOIL, GREEN ONION ON MUCK SOIL, SHALLOT (DRY BULB) ON MUCK SOIL, CARROTS ON MUCK SOIL, SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), SEEDLING GRASSES, FORAGE and GRAIN SORGHUM, FORAGE MILLET, GRAIN PEARL MILLET as a pre-seed/pre-plant application prior to planting CANOLA and ZERO TILL

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: BROMOXYNIL (present as an ester).... 280 g/L

REGISTRATION NO. 18001 PEST CONTROL PRODUCTS ACT



WARNING

POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

[For bulk sizes only: READ ACCOMPANYING BOOKLET BEFORE USING]

Product Information: 1-888-283-6847

www.cropscience.bayer.ca

Bayer CropScience Inc.

Suite 200, 160 Quarry Park Blvd. SE

Calgary, AB

T2C 3G3

IN CASE OF SPILLS, POISONING OR FIRE TELEPHONE EMERGENCY RESPONSE NUMBER 1-800-334-7577 (24 HOURS A DAY).

NET CONTENTS: 1 L – Bulk

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use a control product in a way that is inconsistent with the directions on the label.

DIRECTIONS FOR USE: See the printed booklet provided with this container.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. Avoid breathing spray mist. After use wash hands and other exposed skin.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Avoid spray drift onto crops other than those recommended.

Follow the personal protective equipment, aerial restriction requirements during mixing, loading, application, restricted-entry intervals, pre-harvest and pre-grazing intervals as described in the booklet label.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

FIRST AID: Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. **If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION: This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS: TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. This product contains petroleum distillates which are toxic to aquatic organisms. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

STORAGE: Store this product away from food or feed. Store the container tightly closed, away from seeds, fertilizer, plants and foodstuffs. This PARDNER Herbicide formulation will solidify at temperatures below -20°C but will become useable again at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides to prevent the possibility of cross-contamination. SHAKE WELL BEFORE USING.

DISPOSAL:

RECYCLABLE CONTAINER:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

RETURNABLE CONTAINER:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

REFILLABLE CONTAINER:

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

DISPOSAL OF UNUSED, UNWANTED PRODUCT: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

PARDNER is a registered trademark of Bayer.

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PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. Avoid breathing spray mist. After use wash hands and other exposed skin.

Ground applications: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

Aerial applications: the field crew and the mixer/loaders: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair.

Aerial applicators: Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

DO NOT apply this product in a way that this product will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area being treated during application. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Avoid spray drift onto crops other than those recommended.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

DO NOT enter or allow worker entry into treated areas during the restricted entry intervals (REIs) specified in the following table:

CROP	POST-APPLICATION ACTIVITY	REI
Garlic	Irrigation, handset	2 days
	All other activities	24 hours
Sweet Corn	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours
Leeks (single application at a rate of 1.0 L product/ha)	Hand weeding	11 days
	Hand-set irrigation	2 days
	All other activities	24 hours
Leeks (two applications at a rate of 0.5 L product/ha)	Hand weeding	8 days
	All other activities	24 hours

For other crops DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings.

Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

PRE-HARVEST GRAZING INTERVALS: (wheat, barley, oats and seedling alfalfa) - Do not use treated crops for grazing of livestock or green feed until 30 days after application of PARDNER Herbicide unless otherwise stated on the label. Do not cut treated crops for forage until 30 days after application of PARDNER Herbicide.

CAUTION: Do not graze other treated crops or cut for feed unless specified above; sufficient data are not available to support such use.

FIRST AID: Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION: This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. This product contains petroleum distillates which are toxic to aquatic organisms. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

STORAGE: Store this product away from food or feed. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. This PARDNER Herbicide formulation will solidify at temperatures below - 20°C but will become useable again at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination. SHAKE WELL BEFORE USING.

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DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

TIMING: For best results spray when weeds are in the seedling stage. Apply in good growing conditions. Application must be made before the crop shields the weeds.

SPRAYER: Wash the tank and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume of water per hectare. Flood jet type tips are not recommended. Adjust boom height to ensure uniform coverage of weeds.

MIXING: Half fill the tank with clean water. Add the required amount of PARDNER Herbicide and agitate thoroughly. Fill the tank and agitate again before use.

FIELD SPRAYER APPLICATION:

- DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.
- DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification.
- Boom height must be 60 cm or less above the crop or ground.
- Spray at 5 - 10 km/h.

- Ensure that all tips are in good condition and spraying the same volume.

AERIAL APPLICATION (wheat and barley only):

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

- Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.
- Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.
- Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Aerial Use Precautions:

- Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Aerial Application Operator Precautions:

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilot have communication capabilities at each treatment site at the time of application.
- The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions:

- Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-888-283-6847 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: PARDNER Herbicide plus either MCPA or 2,4-D must be applied in volume rates of not *less than* 20 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, green or pale smartweed, hempnettle, redroot pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

SPRAY BUFFER ZONES:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Spray Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine / Marine Habitats of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	All crops		1	1	1	1	1
Aerial	Barley and wheat	Fixed wing	20	5	1	1	55
		Rotary wing	20	3	1	1	45

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, PARDNER Herbicide is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to PARDNER Herbicide and other Group 6 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of PARDNER Herbicide or other Group 4 and 6 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.

- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Bayer CropScience Inc. at 1-888-283-6847.

PAGE SELECTION GUIDE

	WHEAT	BARLEY	OATS	CORN	FALL RYE	FLAX	CANARY SEED	TRITICALE	GARLIC	CARROT	ONION	SEEDLING ALFALFA	ESTAB. ALFALFA	CANOLA	ZERO TILL	SEEDLING GRASSES	FORAGE SORGUM FORAGE MILLET	GRAIN SORGUM GRAIN PEARL MILLET
PARDNER Herbicide ALONE	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X
PARDNER Herbicide + MCPA	X	X	X		X	X	X									X		
PARDNER Herbicide + 2,4-D	X	X																
PARDNER Herbicide + ACHIEVE Liquid Herbicide	X	X																
PARDNER Herbicide + HORIZON NG Herbicide	X																	
PARDNER Herbicide + PEAK 75WG Herbicide	X																	
PARDNER Herbicide + GLYPHOSATE														X	X			
PARDNER Herbicide + ATRAZINE or AATREX Liquid 480 Herbicide Low rate atrazine				X														
PARDNER Herbicide + BANVEL Herbicide or BANVEL II Herbicide				X (Field corn only)														
PARDNER Herbicide + OPTION 2.25 OD Liquid Herbicide + AATREX Liquid 480 Herbicide				X (Field corn only)														
PARDNER Herbicide + ULTIM [®] Herbicide				X (Field corn only)														
PARDNER Herbicide + ATRAZINE + ULTIM [®] Herbicide				X (Field corn only)														
PARDNER Herbicide + ACCENT 75 DF Herbicide				X (Field corn only)														

For tank-mixes, refer to all product labels for the correct application timing.

TANK MIXES:

POST-EMERGENCE TO CROP	PRE-SEED OR PRE-EMERGENCE TO CROP
<p>This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.</p>	<p>This product may be tank mixed with a fertilizer, a supplement or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.</p>
<p>In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca for information before applying any tank mix that is not specifically recommended on this label.</p> <p>Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank-mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank-mix is suitable for widespread application.</p> <p>To determine the physical compatibility of this product with other products, use a jar test.</p>	

WHEAT (Spring, Durum & Winter – not underseeded to legumes)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water per hectare at a pressure of 275 kPa	<p>Spring and durum wheat may be treated from the 2-leaf until the early flag leaf stage.</p> <p>Winter wheat may be treated from the 2 to 4 leaf stage in the fall or from the time growth begins to the early flag leaf stage in the spring.</p>	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
PARDNER Herbicide + MCPA	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa.	<p>Spring wheat may be treated from the 2-leaf until the early flag leaf stage.</p> <p>Winter wheat may be treated from the 2 to 4 leaf stage in the fall or from the time growth begins to the early flag leaf stage in the spring.</p>	<p>Spring wheat - PARDNER Herbicide at 1.0 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated.</p> <p>Winter wheat - PARDNER Herbicide at 1.0 L/ha can be tank-mixed with 275 g active ingredient MCPA per hectare. Refer to table at end of booklet for correct volume of MCPA (The 8 L container of PARDNER Herbicide treats 8 ha).</p> <p>Note: MCPA-K is preferred for hempnettle although other formulations may be used.. Add MCPA to the spray tank first, agitate, then add PARDNER Herbicide.</p>
PARDNER Herbicide + 2,4-D	Apply in 100 L water per hectare at a pressure of 275 kPa	Spring and winter wheat may be treated from the 4-leaf until the early flag leaf stage. Application before the 4-leaf stage may injure the crop.	PARDNER Herbicide at 1.0 L/ha tank-mixed with 275-420 g active ingredient 2,4-D per ha. Refer to the table at end of booklet for correct volume of 2,4-D. (The 8 L container of PARDNER Herbicide treats 8 ha). Note: 2,4-D ester is preferred although other formulations may be used. Add 2,4-D to the spray tank first, agitate and then add PARDNER Herbicide.

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + ACHIEVE Liquid Herbicide	Apply in 50-100 L water per hectare at a pressure of 275 kPa	Durum wheat, Spring wheat and Winter wheat may be treated from the 2-leaf until the early flag leaf stage of growth.	<p>PARDNER Herbicide at 1.0 L/ha tank mixed with ACHIEVE Liquid Herbicide at 0.5 L/ha. When using this tank-mixture, add Turbocharge Adjuvant to the spray tank at a concentration of 0.5% v/v (i.e. 0.5 L of Turbocharge Adjuvant per 100 L of spray solution).</p> <p>Note: PARDNER Herbicide and ACHIEVE Liquid Herbicide tank-mixtures can be used in all varieties of Spring Wheat (including Canada Western red spring, amber durum, soft white spring, extra strong and Canada prairie spring), and red winter wheat.</p>

WHEAT (Spring & Durum – not underseeded to legumes) For use in Manitoba, Saskatchewan, Alberta plus the Interior of British Columbia

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + HORIZON NG Herbicide (durum and spring wheat only)	Apply in 100 L water per hectare at a pressure of 275 kPa	Spring wheat and Durum wheat may be treated from the 2-leaf to flag leaf.	<p>PARDNER Herbicide at 1.0 L/ha tank mixed with HORIZON NG Herbicide at 930 mL/ha or 1.17L/ha.</p> <p>Note: PARDNER Herbicide and HORIZON NG Herbicide tank mix can be used in all varieties of Spring wheat and Durum wheat.</p>

WHEAT (Spring, Durum & Winter) - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER Herbicide used alone	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p><i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p><i>** Spray before plants are 5 cm high.</i></p> <p><i>*** Spray before plants are 8 cm high.</i></p>
PARDNER Herbicide + MCPA	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hempnettle***, Night flowering catchfly, Canada thistle****, Perennial sowthistle****, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p><i>* Spring annuals only. Will not control overwintered weeds.</i></p> <p><i>** For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p><i>*** Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i></p> <p><i>**** Top growth control.</i></p>
PARDNER Herbicide + 2,4-D	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Night-flowering catchfly, Flixweed*, Shepherd's purse, Volunteer sunflower, Ball mustard</p> <p>Seedlings up to 8-leaf stage Stinkweed*, Wild mustard</p> <p><i>* The higher rate of 2,4-D is recommended for larger overwintered weeds (fall rosettes).</i></p>

	WEEDS CONTROLLED
PARDNER Herbicide + ACHIEVE Liquid Herbicide	As listed for PARDNER Herbicide used alone plus wild oats, volunteer oats, green foxtail (wild millet), yellow foxtail, barnyard grass and persian dandel.
PARDNER Herbicide + HORIZON NG Herbicide (spring wheat and durum wheat only)	As listed for PARDNER Herbicide used alone plus those listed on the HORIZON NG Herbicide label.

MINOR USE:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

WINTER WHEAT (EASTERN CANADA ONLY)**PARDNER Herbicide + PEAK 75WG Herbicide**

	Spray Volume and Pressure	Timing	Application Rate
PARDNER Herbicide + PEAK 75WG Herbicide	Apply in a minimum of 150 L water/ha at a pressure of 275 kPa.	Apply PEAK 75WG Herbicide as a broadcast spray to wheat up to and including BBCH Growth Stage 32 (beginning of stem elongation), by ground application only. DO NOT APPLY BY AIR. Make one application per year.	PARDNER Herbicide at 0.5 L/ha tank-mixed with PEAK 75WG Herbicide at 13.3 g/ha plus a non-ionic surfactant at 0.2% v/v. Note: PEAK 75WG Herbicide must be tank mixed with a non-ionic surfactant (AGRAL 90 PCP 11809, Agsurf PCP 27921, 22881, 15881, or Citowett Plus). Do not use Crop Oil Concentrate for use on winter wheat.

WEEDS CONTROLLED:

Wild carrot in the 2 to 20 leaf stage

BARLEY (not underseeded to legumes)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water per hectare at a pressure of 275 kPa	The crop may be treated from the 2-leaf until the early flag leaf stage.	1.0 - 1.2 L/ha (The 8 L container of PARDNER Herbicide treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
PARDNER Herbicide + MCPA	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa	The crop may be treated from the 2-leaf until the early flag leaf stage.	PARDNER Herbicide at 1.0 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated. Refer to the table at end of booklet for correct volume of MCPA. (The 8 L container of PARDNER Herbicide treats 8 ha). Note: MCPA-K is preferred for hempnettle although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER Herbicide.
PARDNER Herbicide + 2,4-D	Apply in 100 L water per hectare at a pressure of 275 kPa	The crop may be treated from the 4-leaf until the early flag leaf stage. Application before the 4leaf stage may result in injury to the crop.	PARDNER Herbicide at 1.0 L/ha tank-mixed with 275-420 g active ingredient 2,4-D per ha. Refer to table at end of booklet for correct volume of 2,4-D. (The 8 L container of PARDNER Herbicide treats 8 ha). Note: 2,4-D ester is preferred although other formulations may be used. Add 2,4-D to the spray tank first, agitate and then add PARDNER Herbicide.
PARDNER Herbicide + ACHIEVE Liquid Herbicide	Apply in 50-100 L water per hectare at a pressure of 275 kPa.	Barley may be treated from the 2leaf until the early flag leaf stage of growth.	PARDNER Herbicide at 1.0 L/ha tank mixed with ACHIEVE Liquid Herbicide at 0.5 L/ha. When using this tank-mixture, add Turbocharge Adjuvant to the spray tank at a concentration of 0.5% v/v (i.e. 0.5 L of Turbocharge Adjuvant per 100 L of spray solution). .Note: PARDNER Herbicide and ACHIEVE Liquid Herbicide tank-mixtures can be used in all 2 or 6 row varieties of barley (malting and feed varieties).

BARLEY (not underseeded to legumes) - WEEDS CONTROLLED

PARDNER Herbicide used alone	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p><i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p><i>** Spray before plants are 5 cm high.</i></p> <p><i>*** Spray before plants are 8 cm high.</i></p>
PARDNER Herbicide + MCPA	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hempnettle***, Night flowering catchfly, Canada thistle****, Perennial sowthistle****, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p><i>* Spring annuals only. Will not control overwintered weeds.</i></p> <p><i>** For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p><i>*** Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i></p> <p><i>**** Top growth control.</i></p>
PARDNER Herbicide + 2,4-D	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Night-flowering catchfly, Flixweed*, Shepherd's purse, Volunteer sunflower, Ball mustard</p> <p>Seedlings up to 8-leaf stage Stinkweed*, Wild mustard</p> <p><i>* The higher rate of 2,4-D is recommended for larger over wintered weeds (fall rosettes).</i></p>

	WEEDS CONTROLLED
PARDNER Herbicide + ACHIEVE Liquid Herbicide	As listed for PARDNER Herbicide used alone plus wild oats, volunteer oats, green foxtail (wild millet), yellow foxtail, barnyard grass and persian darnel.

OATS (not underseeded to legumes)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water per hectare at a pressure of 275 kPa	The crop may be treated from the 2-leaf until the early flag leaf stage.	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.

WEEDS CONTROLLED:

Seedlings up to 4-leaf stage

Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.

Seedlings up to 8-leaf stage

Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.

* *In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.*

** *Spray before plants are 5 cm high.*

*** *Spray before plants are 8 cm high.*

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + MCPA	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa	The crop may be treated from the 2-leaf until the early flag leaf stage.	PARDNER Herbicide at 1.0 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated. Refer to the table at end of booklet for correct volume of MCPA. (The 8 L container of PARDNER Herbicide treats 8 ha). Note: MCPA-K is preferred for hempnettle although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER Herbicide.

WEEDS CONTROLLED:

As listed for PARDNER Herbicide used alone **plus** these additional weeds.

Seedlings up to 4-leaf stage

Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hempnettle***, Night flowering catchfly, Canada thistle****, Perennial sowthistle****, Ball mustard.

Seedlings up to 8-leaf stage

Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.

* *Spring annuals only. Will not control overwintered weeds.*

** *For high infestations tank-mix 550 g active ingredient MCPA per ha.*

*** *Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.*

**** *Top growth control.*

CORN (Field & Sweet)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.	Corn may be treated with a broadcast post-emergence application at the recommended rate from the 4-leaf stage onward. To ensure adequate coverage of weeds, drop pipes should be used when corn is beyond the 8-leaf stage or for a second application for later germinating weeds such as cocklebur and velvetleaf. Minimum re-treatment interval for the second application is 21 days. The pre-harvest interval (PHI) is 20 days.	<p>1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). Use of the higher recommended rate will improve control when heavy infestations of weeds are present.</p> <p>PARDNER Herbicide is a contact herbicide thus good coverage of the weeds is essential.</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT.</p>

WEEDS CONTROLLED:

Seedlings up to 4-leaf stage

Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.

Seedlings up to 8-leaf stage

Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.

* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.

** Spray before plants are 5 cm high.

*** Spray before plants are 8 cm high. Atrazine tank-mix will improve control of larger plants.

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + ATRAZINE	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.	Corn should be treated from the 4 to 8 leaf stage. Refer to the Atrazine label for limitations on grassy weeds.	<p>PARDNER Herbicide at 1.0 L/ha tank-mixed with Atrazine at 1.1 to 1.5 kg active ingredient per hectare. Add Atrazine to the spray tank first, agitate well, and then add PARDNER Herbicide. (The 8 L container of PARDNER Herbicide treats 8 ha).</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL. Refer to the Atrazine label for on crop restrictions the following year.</p>
<p>WEEDS CONTROLLED: As listed for PARDNER Herbicide used alone plus weeds as indicated on the Atrazine label and, when Atrazine is applied at 1.5 kg active ingredient per hectare, bur cucumber seedlings in the 1 to 4-leaf stage.</p>			
PARDNER Herbicide + LOW RATE ATRAZINE	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.	Corn should be treated from the 4 - 8 leaf stage.	<p>PARDNER Herbicide at 1.0 - 1.2 L/ha tank mixed with Atrazine at 0.5 kg active ingredient per hectare. Add Atrazine to the spray tank first, agitate well and then add PARDNER Herbicide. (The 8L container of PARDNER Herbicide treats 8 ha).</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL.</p>
<p>WEEDS CONTROLLED: As listed for PARDNER Herbicide used alone plus:</p> <p>Seedlings up to the 6-leaf stage Redroot pigweed (triazine susceptible), velvetleaf*</p> <p>Seedlings up to the 8-leaf stage Common ragweed</p> <p>* <i>Spray before weeds reach 10 cm in height.</i></p>			

MINOR USE:

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CORN (Field, Silage & Sweet)**PARDNER Herbicide + AATREX Liquid 480 Herbicide**

	Spray Volume and Pressure	Timing	Application Rate
PARDNER + AATREX Liquid 480 Herbicide	Apply in 200 L water/ha at a pressure of 275 kPa.	Apply when the crop is at the 4- to 8-leaf stage, by ground application only. Do not apply by air. Make one application per year. Do not use in the province of British Columbia.	<p>PARDNER Herbicide at 1.0 L/ha tank-mixed with AATREX Liquid 480 Herbicide at 3.1 L/ha.</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions).</p> <p>DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL.</p>

WEEDS CONTROLLED:**Seedlings at the unifoliate to fourth trifoliate leaf stage**

Volunteer adzuki beans (*Vigna angularis*)

Seedlings up to the 10-leaf stage

Giant ragweed (suppression only)

FIELD CORN (DO NOT USE ON SWEET CORN)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + BANVEL Herbicide or BANVEL II Herbicide	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.	Field corn should be treated from the 4 - 6 leaf stage as an overall broadcast treatment. Drop pipes should be used when applying to corn over the 6 leaf stage and up to 50 cm; direct drop pipe nozzles on the weeds beneath the corn leaves. Apply no later than 2 weeks prior to tassel emergence and do not apply to corn over 50 cm in height.	<p>PARDNER Herbicide at 1.0 L/ha tank-mixed with BANVEL Herbicide or BANVEL II Herbicide at 290 mL/ha. Add PARDNER Herbicide to the spray tank first, agitate well and then add BANVEL Herbicide or BANVEL II Herbicide.</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT.</p>
<p>WEEDS CONTROLLED: As listed for PARDNER Herbicide used alone plus:</p> <p>Seedlings up to the 6-leaf stage Redroot pigweed and Common ragweed including triazine resistant strains.</p>			

FIELD CORN (DO NOT USE ON SWEET CORN)
EASTERN CANADA

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + OPTION 2.25 OD Liquid Herbicide + AATREX Liquid 480 Herbicide	Apply in a minimum of 150 L water per hectare at a pressure of 175 – 275 kPa.	Field corn should be treated from the 1 to 8 leaf stage, or 5-6 visible collars (the leaf is counted once the next leaf is visible in the whorl).	<p>PARDNER Herbicide at 0.5 L/ha tank-mixed with OPTION 2.25 OD Liquid Herbicide at 1.56 L/ha plus AATREX Liquid 480 Herbicide at 1.04 L/ha.</p> <p>Add OPTION 2.25 OD Liquid Herbicide to the spray tank first and ensure the product is thoroughly mixed with water. Add correct amount of dry component next, if appropriate, followed by the correct amount of the liquid component(s).</p>
<p>WEEDS CONTROLLED: Barnyard grass, large crabgrass, fall panicum, bristly foxtail, green foxtail, yellow foxtail, proso millet, witchgrass, common chickweed, redroot pigweed, velvetleaf, wild mustard, wormseed mustard, eastern black nightshade, lamb's quarters, common ragweed, wild buckwheat.</p> <p>Refer to the OPTION 2.25 OD Liquid Herbicide label for appropriate application timing relative to weed growth stages.</p>			

**FIELD CORN ONLY
EASTERN CANADA**

PARDNER Herbicide + ULTIM® HERBICIDE + NON-IONIC SURFACTANT:

Apply the PARDNER Herbicide + ULTIM Herbicide tank-mix ONLY when the temperature in the 24 hours before *and* after application ranges between 5°C and 28°C. Temperatures beyond this range increase the potential for crop injury. Separate applications of ULTIM Herbicide followed by PARDNER Herbicide (minimum 12 hours later) will reduce the potential for injury.

Refer to the ULTIM Herbicide label for additional information on Environmental Conditions and Biological Activity.

MIXING: Fill the tank about 1/4 full with clean water. Turn on full agitation. Add the required amount of ULTIM Herbicide and agitate thoroughly until completely dissolved and product is fully dispersed. Add the required amount of PARDNER Herbicide, followed by a non-ionic surfactant while agitating. Fill the remainder of the spray tank.

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide +ULTIM Herbicide+ non-ionic surfactant	Apply in 200 - 300L water per hectare at a pressure of 275 kPa by ground only. DO NOT apply air.	Corn should be treated from the 4 to 6 leaf stage (up to 4 visible collars or 30 cm in height - leaf extended). .	PARDNER Herbicide at 1.0 L/ha tank-mixed with 33.3 g/ha of ULTIM Herbicide and a non-ionic surfactant 2 L per 1000 L spray solution (0.2% v/v).

WEEDS CONTROLLED

As listed for PARDNER Herbicide used alone **plus** these additional weeds:

Seedlings up to the 6-leaf stage:

Barnyard grass, Proso millet**, Yellow foxtail, Green foxtail, Fall panicum, Old witchgrass and Redroot pigweed*.

3 to 6-leaf stage:

Quackgrass**

** including triazine resistant species*

*** Refer to the Ultim Herbicide label for specific weed control recommendations*

FIELD CORN ONLY
EASTERN CANADA

PARDNER Herbicide + ATRAZINE + ULTIM HERBICIDE + NON-IONIC SURFACTANT:

Apply the PARDNER Herbicide + Atrazine + ULTIM Herbicide tank-mix ONLY when the temperature in the 24 hours before *and* after application ranges between 5°C and 28°C. Temperatures beyond this range increase the potential for crop injury. Separate applications of ULTIM Herbicide followed by PARDNER Herbicide (minimum 12 hours later) will reduce the potential for injury.

Refer to the ULTIM Herbicide label for additional information on Environmental Conditions and Biological Activity.

MIXING: Fill the tank about 1/4 full with clean water. Turn on full agitation. Add the required amount of ULTIM Herbicide and agitate thoroughly until completely dissolved and product is fully dispersed. Add the required amount of Atrazine and agitate thoroughly again. Add the required amount of PARDNER Herbicide, followed by a non-ionic surfactant while agitating. Fill the remainder of the spray tank.

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + Atrazine + ULTIM Herbicide + non-ionic surfactant	Apply in 200 – 300L water per hectare at a pressure of 275 kPa by ground only. DO NOT apply air.	Corn should be treated from the 3 to 6 leaf stage (up to 4 visible collars or 30 cm in height – leaf extended).	PARDNER Herbicide at 0.5 L/ha tank-mixed with Atrazine at 0.5 kg active ingredient per hectare tank-mixed with 33.3 g/ha of ULTIM Herbicide and a non-ionic surfactant, at 2 L per 1000 L spray solution (0.2% v/v).
WEEDS CONTROLLED: As listed for PARDNER Herbicide + ULTIM Herbicide plus: Seedlings up to the 6-leaf stage: Velvetleaf* Seedlings up to 8-leaf stage: Common ragweed <i>*Spray before weeds reach 10 cm in height</i>			

MINOR USE:

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**FIELD CORN ONLY
PRAIRIE PROVINCES****PARDNER Herbicide + Accent 75 DF Herbicide + non-ionic surfactant**

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + Accent 75 DF Herbicide + non-ionic surfactant	Apply in a minimum of 100 L water per hectare at a pressure of 275 kPa by ground only. DO NOT apply by air.	Apply as a single post emergent spray. Apply post-emergence to corn when at the 4 to 8 leaf stage (2-6 visible collars). Do not apply prior to the 4-leaf (2 visible collars) or after the 8leaf (6 visible collars) stage of corn. Observe a PHI of 30 days.	Pardner Herbicide at 1.0 L/ha tank-mixed with Accent 75 DF Herbicide at 33.4 grams/ha and a recommended non-ionic surfactant, either Citowett Plus, Agral 90 or Agsurf at 2 L per 1000 L spray solution (0.2% v/v).

WEEDS CONTROLLED:

As listed for PARDNER Herbicide used alone **plus** these additional weeds:

Seedlings in the 1 to 6-leaf stage (up to early tillering, 2 – two leaf tillers)

Yellow foxtail*, barnyard grass, fall panicum, green foxtail, old witchgrass

Plants in the 3 to 6-leaf stage (10-20 cm in height – leaf extended) Quackgrass

* *Suppression only*

FALL RYE (not underseeded to legumes)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water per hectare at a pressure of 275 kPa	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
PARDNER Herbicide + MCPA	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa.	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.	<p>PARDNER Herbicide at 1.0 L/ha tank-mixed with 275 g active ingredient MCPA per hectare where indicated. Refer to the mixing tables at end of book for correct volume of MCPA. (The 8 L container of PARDNER Herbicide treats 8 ha).</p> <p>Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER Herbicide.</p>

FALL RYE (Not underseeded to legumes) - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER Herbicide used alone	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p><i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p><i>** Spray before plants are 5 cm high.</i></p> <p><i>*** Spray before plants are 8 cm high.</i></p>
PARDNER Herbicide + MCPA	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Night flowering catchfly, Canada thistle**, Perennial sowthistle**, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p><i>* Spring annuals only. Will not control overwintered weeds.</i></p> <p><i>** Top growth control only.</i></p>

FLAX (including low linolenic acid varieties)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water per hectare at a pressure of 275 kPa.	<p>Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply PARDNER Herbicide when flax is 5-10 cm high.</p> <p>Note: Spraying in the evening may reduce risk of flax injury.</p> <p>Warning: Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. DO NOT APPLY BY AIR. Observe a minimum interval to harvest of 60 days after application of PARDNER Herbicide.</p> <p>Flax is less tolerant of this product than are the cereal crops. Some leaf burn and retarded growth may delay maturity 2-3 days. Avoid Using PARDNER Herbicide when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.</p>	1 L/ha
PARDNER Herbicide + MCPA or MCPA-K	Apply in 100 L water per hectare at a pressure of 275 kPa.	<p>Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply PARDNER Herbicide when flax is 5-10 cm high.</p> <p>Note: Spraying in the evening may reduce risk of flax injury.</p> <p>Warning: Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. DO NOT APPLY BY AIR. Observe a minimum interval to harvest of 60 days after application of PARDNER Herbicide.</p> <p>Flax is less tolerant of this product than are the cereal crops. Some leaf burn and retarded growth may delay maturity 2-3 days. Avoid Using PARDNER Herbicide when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.</p>	<p>PARDNER Herbicide at 1.0 L/ha tankmixed with MCPA or MCPA-K at 275 g a.i./ha.</p> <p>.</p> <p>The amine, ester or K-salt formulations of MCPA can be used in tank mixtures.</p>

FLAX - WEEDS CONTROLLED

	WEEDS CONTROLLED
PARDNER Herbicide used alone	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, triazine-resistant Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p><i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. ** Spray before plants are 5 cm high.</i></p> <p><i>*** Spray before plants are 8 cm high.</i></p>
PARDNER Herbicide + MCPA or MCPA-K	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hempnettle***, Night flowering catchfly, Canada thistle****, Perennial sowthistle****, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p><i>* Spring annuals only. Will not control overwintered weeds.</i></p> <p><i>** For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p><i>*** Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled. **** Top growth control only.</i></p>

CANARY SEED (for seed production)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water per hectare at a pressure of 275 kPa	The crop may be treated from the 3 to 5 leaf stage.	1.0 L/ha (The 8 L container treats 8 ha).
PARDNER Herbicide + MCPA	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa.	The crop may be treated from the 3 to 5 leaf stage.	<p>PARDNER Herbicide at 1.0 L/ha tank-mixed with 275 g active ingredient MCPA per hectare. Refer to the table at end of book for correct volume of MCPA. (The 8 L container of PARDNER Herbicide treats 8 ha).</p> <p>Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER Herbicide.</p>
WEEDS CONTROLLED			
PARDNER Herbicide used alone	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. ** Spray before plants are 5 cm high. *** Spray before plants are 8 cm high.</p>		
PARDNER Herbicide + MCPA	<p>As listed for PARDNER Herbicide used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Night flowering catchfly, Canada thistle**, Perennial sowthistle**, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p>* Spring annuals only. Will not control overwintered weeds. ** Top growth control only.</p>		

TRITICALE

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water/ha at a pressure of 275 kPa.	The crop may be treated from the 2-leaf until the early flag leaf stage.	1.0 - 1.2 L/ha (The 8L container treats 6.6-8 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED: Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed. Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters. <i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>			

GARLIC

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.	Apply early post emergent to weeds by ground application only. One application per year. Observe a PHI of 58 days.	1.0 L/ha
WEEDS CONTROLLED: Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade. Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters. <i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>			

MINOR USES:

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CARROT IN MUCK SOIL

	Spray Volume and Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.	<p>Apply only to carrots grown on muck soils containing greater than 10% organic matter.</p> <p>Apply after planting before crop emerges, by ground application only. One application per year.</p> <p>Observe a PHI of 45 days.</p> <p>Do not irrigate carrots that have received a preemergence application of PARDNER for 2 days following application or 3 days of crop emergence.</p>	<p>1.0 - 1.2 L/ha</p> <p>PARDNER Herbicide is a contact herbicide thus good coverage of the weeds is essential.</p>

WEEDS CONTROLLED:

Seedlings up to 4-leaf stage

Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.

Seedlings up to 8-leaf stage

Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.

* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.

** Spray before plants are 5 cm high.

*** Spray before plants are 8 cm high.

ONION (DRY BULB ONLY)

	Spray Volume and Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 200 L water/ha at a pressure of 170 kPa.	<p>Make two applications per season, at an interval of 10 to 18 days. The first application should be made when onions are at the 2- to 3-leaf stage, and the second application made when onions are at the 4- to 5-leaf stage.</p> <p>DO NOT harvest within 75 days of application.</p>	<p>Apply PARDNER Herbicide twice per season, each time at a rate of 0.5 L/ha</p> <p>Application Precaution: Pardner Herbicide may cause severe leaf burn in onions if weather conditions have not been conducive to the development of the outer waxy layer of the onion leaf.</p>
WEEDS CONTROLLED: Seedlings up to 4-leaf stage Common groundsel.			

LEEK		
	Spray Volume and Pressure	Application Timing and Use Rate
PARDNER Herbicide used alone	Apply in a minimum of 200 L water per hectare at a pressure of 275 kPa.	<p>Apply PARDNER Herbicide at 1.0 L/ha to leeks 10-14 days after transplanting. Apply only once per year when using this single application rate of 1.0 L/ha.</p> <p>or</p> <p>Apply PARDNER Herbicide twice per season, each time at a rate of 0.5 L/ha. The first application should be made 10-14 days after transplanting followed by a second application 7-10 days after the first. Apply only twice per year when using this split application rate of 0.5 L/ha</p> <p>Apply using ground equipment only. DO NOT APPLY BY AIR.</p> <p>Observe a PHI of 60 days.</p> <p>For a single application at a rate of 1.0 L product/ha: DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 11 days to perform hand weeding and 2 days to perform hand-set irrigation. For all other post-application activities, DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p> <p>For two split applications at a rate of 0.5 L product/ha: DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 8 days to perform hand weeding. For all other post-application activities, DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p>
WEEDS CONTROLLED		
PARDNER Herbicide used alone at a single application rate of 1.0 L/ha		PARDNER Herbicide used alone at 0.5 L/ha followed by 0.5 L/ha
<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p><i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p><i>** Spray before plants are 5 cm high.</i></p> <p><i>*** Spray before plants are 8 cm high.</i></p>		<p>Seedlings up to 4-leaf stage Common groundsel</p>

ONION (dry bulb), SHALLOT (dry bulb) and GREEN ONIONS ON MUCK SOIL

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 200-300 L water per hectare at a pressure of 170 kPa.	<p>Apply only to onion (dry bulb), shallot (dry bulb) and green onion grown on muck soils containing greater than 10% organic matter.</p> <p>Apply after planting before crop emerges, by ground application only. DO NOT APPLY BY AIR.</p> <p>One application per year. Observe a PHI of 45 days for green onion. Observe a PHI of 75 days for onion (dry bulb) and shallot (dry bulb).</p>	<p>1.0 - 1.2 L/ha</p> <p>PARDNER Herbicide is a contact herbicide thus good coverage of the weeds is essential.</p>
WEEDS CONTROLLED: Seedlings up to 4-leaf stage Common groundsel			

SEEDLING ALFALFA

PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water/ha at a pressure of 275 kPa – ground application only. DO NOT APPLY BY AIR.	Seedling alfalfa may be treated at the 2 to 6 trifoliate leaf stage.	1.0 L/ha (The 8L container treats 8 ha). Note: Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied during or after periods of cool and wet, or hot and humid weather conditions. Do not apply if crop is under stress. Do not apply to alfalfa seedlings in the unifoliate or 1st trifoliate leaf stage. Avoid overlapping as severe crop injury may occur.

WEEDS CONTROLLED:

Seedlings up to 4-leaf stage

Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Velvetleaf***, Bluebur, American nightshade. Jimsonweed.

Seedlings up to 8-leaf stage

Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.

* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.

** Spray before plants are 5 cm high.

*** Spray before plants are 8 cm high.

ESTABLISHED ALFALFA (for seed production only)
PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 100 L water/ha at a pressure of 275 kPa – ground application only. DO NOT APPLY BY AIR.	Established alfalfa may be treated until alfalfa is 25 cm tall. Maximum of 2 applications per year. Minimum re-treatment interval for the second application is 21 days.	1.0 - 1.2 L/ha (The 8L container treats 6.6-8 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control. Note: Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied during or after periods of cool and wet, or hot and humid weather conditions. Crop will recover and yield will not be affected.
<p>WEEDS CONTROLLED:</p> <p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results. ** Spray before plants are 5 cm high. *** Spray before plants are 8 cm high.</p>			

PRE-SEED/PRE-PLANT APPLICATION PRIOR TO SEEDING CANOLA

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + glyphosate (present as potassium or isopropylamine salt, dimethylamine, or diammonium salt)	Apply in 100 L of clean water per hectare at a pressure of 275 kPa.	Application can be made up to one day prior to seeding. DO NOT apply after seeding or crop emergence.	PARDNER Herbicide at 1.0 – 1.25 L/ha tank-mixed with glyphosate at 448 – 1782 g a.e./ha. Under adverse growing conditions or heavy weed populations use of the higher recommended rate of PARDNER Herbicide will improve control. PARDNER Herbicide should be added to the spray tank first, then add glyphosate.
WEEDS CONTROLLED: Annual and perennial weeds listed on the glyphosate label plus jimsonweed seedlings up to the 4-leaf stage , volunteer canola* seedlings at the 1-4 leaf stage and Kochia (1-5cm high)** <i>* Including herbicide resistant biotypes.</i> <i>** Supression only, including glyphosate resistant biotypes</i>			

MINIMUM OR ZERO TILL

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide + glyphosate (present as potassium or isopropylamine salt, dimethylamine or diammonium salt)	Apply in 100 L of clean water per hectare at a pressure of 275 kPa.	<p>This recommendation applies only to minimum or zero till situations before emergence of the crop. Application can be made just prior to or immediately after seeding. Under no circumstances should application be made after crop emergence. Weeds in the seedling stage are most susceptible.</p> <p>This treatment should only be used for minimum or zero-tillage cropping systems in wheat, barley and oats.</p>	<p>PARDNER Herbicide at 1.0 – 1.25 L/ha tank-mixed with glyphosate at 396 g a.e./ha. Under adverse growing conditions or when high populations of volunteer canola are present, use of the higher recommended rate of PARDNER Herbicide will improve control.</p> <p>PARDNER Herbicide should be added to the spray tank first, then add glyphosate.</p>
<p>WEEDS CONTROLLED:</p> <p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade, Volunteer canola****.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>Grassy weeds up to 15 cm Wild oats, Volunteer cereals, Green foxtail</p> <p><i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.</i> <i>** Spray before plants are 5 cm high, suppression only for glyphosate resistant kochia</i> <i>*** Spray before plants are 8 cm high.</i> <i>**** Including herbicide tolerant types.</i></p>			

SEEDLING GRASSES (not underseeded to legumes)

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 150 L water per hectare at a pressure of 275 kPa.	Seedling grasses may be treated from the 2 to 4 leaf stage.	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control. Note: Grasses grown for seed production in the year of establishment only. Crops: Brome grass, Crested wheat grass, Intermediate wheat grass, Slender wheat grass, Tall wheat grass, Russian wild rye, Timothy, Orchard grass, creeping red fescue, Meadow fescue, Reed canary grass.
WEEDS CONTROLLED: Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed. Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters. <i>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> <i>** Spray before plants are 5 cm high.</i> <i>*** Spray before plants are 8 cm high.</i>			
PARDNER Herbicide + MCPA	Apply in 150 L water per hectare at a pressure of 275 kPa.	Seedling grasses may be treated from the 2 to 4 leaf stage.	PARDNER Herbicide at 1.0 L/ha tank-mixed with 275 g active ingredient MCPA per hectare. Refer to the table at end of book for correct volume of MCPA. (The 8 L container of PARDNER Herbicide treats 8 ha). Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add PARDNER Herbicide.
WEEDS CONTROLLED: As listed for PARDNER Herbicide used alone plus these additional weeds Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer rapeseed/canola**, Volunteer sunflower, Night flowering catchfly, Canada thistle**, Perennial sowthistle**, Ball mustard. Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard. <i>* Spring annuals only. Will not control overwintered weeds.</i> <i>** Top growth control only.</i>			

FORAGE SORGHUM AND FORAGE MILLET

	Spray Volume & Pressure	Timing	Application Rate
PARDNER Herbicide used alone	Apply in 200 – 300 L water per hectare at a pressure of 275 kPa.	Apply when the crop is at or beyond the 4 leaf stage and less than 20 cm in height by ground application only. One application per year. Observe a PHI of 30 days.	1.0 L/ha
<p>WEEDS CONTROLLED:</p> <p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results. ** Spray before plants are 5 cm high. *** Spray before plants are 8 cm high.</p>			

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GRAIN SORGHUM and GRAIN PEARL MILLET

	Spray Volume and Pressure	Timing	Application Rate
PARDNER used alone	Apply in 200-300 L water/ha at a pressure of 275 kPa.	Apply when the crop is at or beyond the 4 leaf stage and less than 20 cm in height by ground application only. DO NOT APPLY BY AIR. One application per year. Observe a PHI of 100 days.	PARDNER Herbicide at 1.0 L/ha.

WEEDS CONTROLLED:**Seedlings up to 4-leaf stage**

Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Kochia**, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade and Jimsonweed

Seedlings up to 8-leaf stage

Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.

** In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.*

*** Spray before plants are 5 cm high.*

**** Spray before plants are 8 cm high.*

MIXING TABLE: For calculating the amount of product to add to the spray tank when applying 100 L spray solution per hectare.

		PARDNER Herbicide (280 g/L)		MCPA AMINE 500 ou MCPA ESTER 500		MCPA-K 400		MCPA SODIUM SALT 300	
Rate active per hectare		280g	340g	275 g	550g	275 g	550 g	275 g	550g
Rate product per hectare		1.0L	1.2 L	550mL	1.1L	690 mL	1.38 L	920 mL	1.83 L
Size of Spray Tank		Litres of Chemical to add to spray tank (approx.)							
Gallons	Litres								
500	2273	22.7	27.3	12.5	25.0	15.7	31.4	20.9	41.6
400	1818	18.2	21.8	10.0	20.0	12.5	25.0	16.7	33.3
350	1591	16.0	19.1	8.75	17.5	11.0	22.0	14.6	29.2
300	1363	13.6	16.4	7.5	15.0	9.4	18.8	12.5	25.0
250	1136	11.4	13.6	6.25	12.5	7.8	15.7	10.5	20.8
200	909	9.1	10.9	5.0	10.0	6.25	12.5	8.4	16.6
100	455	4.5	5.5	2.5	5.0	3.2	6.3	4.2	8.4
50	227	2.3	2.7	1.25	2.5	1.6	3.2	2.1	4.2
22	100	1.0	1.2	500mL	1.1	690 mL	1.38	920 mL	1.8
10	45	450 mL	540mL	250mL	500mL	310 mL	620 mL	420 mL	820 mL

		PARDNER Herbicide (280 g/L)		2,4-D AMINE 500	2,4-D 600 L.V. ESTER	2,4-D 700 L.V. ESTER
Rate active per hectare		280g	340 g	275 g	275 g	275 g
Rate product per hectare		1.0L	1.2L	550mL	458 mL	393 mL
Size of Spray Tank		Litres of Chemical to add to spray tank (approx.)				
Gallons	Litres					
500	2273	22.7	27.3	12.5	10.4	8.9
400	1818	18.2	21.8	10.0	8.3	7.1
350	1591	16.0	19.1	8.75	7.3	6.25
300	1363	13.6	16.4	7.5	6.25	5.4
250	1136	11.4	13.6	6.25	5.2	4.5
200	909	9.1	10.9	5.0	4.2	3.6
100	455	4.5	5.5	2.5	2.1	1.8
50	227	2.3	2.7	1.25	1.0	890 mL
22	100	1.0	1.2	550 mL	458mL	390 mL
10	45	450mL	540 mL	250 mL	210mL	180 mL

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